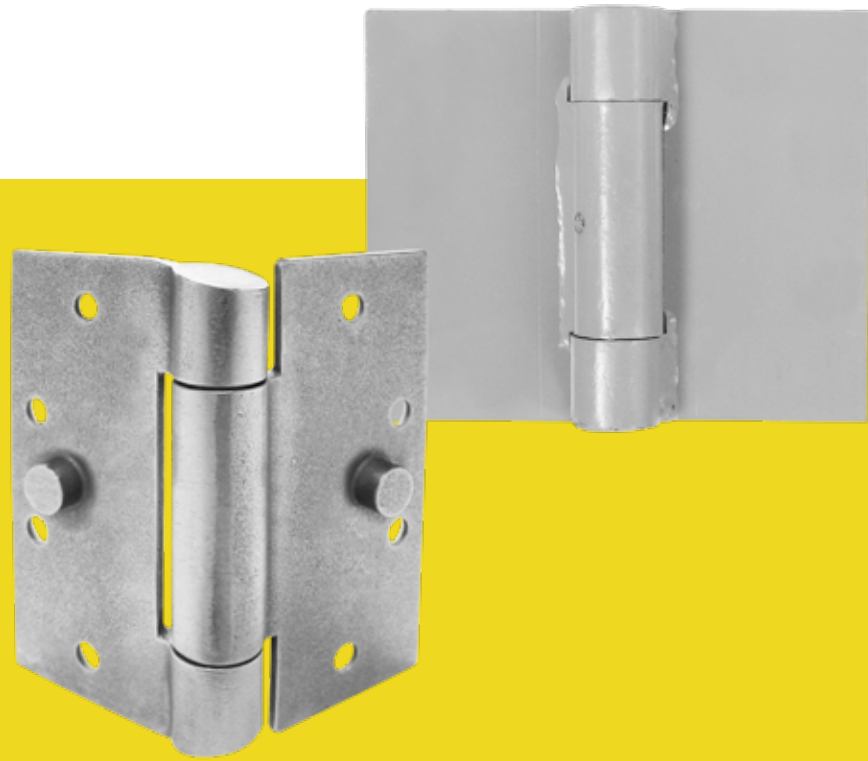


**STANLEY®**



# Detention Hardware

dormakaba 

Trusted experts. Proven reliability. Simply STANLEY.

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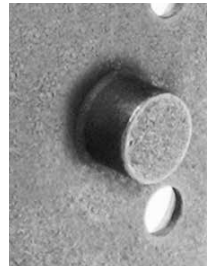
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## Detention Hardware

### Heavy Weight Concealed Bearing Prison Hinges

**IHTCB1995R** – (ANSI A8111) – 3 knuckle – full mortise – steel – phosphated and painted  
**IHTCB1995R** – (ANSI A5111) – 3 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- Investment cast 304 stainless steel
- Available with or without shear resistant stud (SRS)
- Limited lifetime warranty
- Concealed bearing for trouble free, long life – no oil, no grease, no maintenance
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Stainless steel, hardened, free turning, completely concealed pin
- Hinges can be furnished as follows:
  - with concealed switch (CS)
  - with shear resistant studs (SRS)



Shear Resistant Stud

Size Open		Gauge of Metal		Number of Flat Head Security Machine Screws Per Hinge		Quantity Per Box	Quantity Per Carton	Carton Weight	
Inches	(mm)	Inches	(mm)					Lbs.	(Kg)
4 1/2" x 4 1/2"	(114 x 114)	.188	(4.8)	8 - 1/4-20 x 1/2	8-9 x 1	3 ea.	30 ea.	46	(20.9)

### Suggested Specifications

Institutional type hinges should be fabricated from investment cast stainless steel. All dimensions as to size, thickness, and screw holes shall conform to ANSI-A156.7 "Standard for Template Hinge Dimensions". Both lateral and vertical loads will be accommodated by bearings which include anti-friction, self-lubricating materials. Pins shall be non-removable. The top and bottom ends of the hinge barrel shall be contoured to a uniform slope.

Hinges shall be tested to cycle a 300 lbs. (136 Kg) door a minimum of 2,500,000 times, (0°-90°-0°), installed in accordance with ANSI-156.1 type test fixtures. Vertical wear shall not exceed .030" (.76mm) and lateral wear shall not exceed .060" (1.5mm).

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. (271.2-J) of force delivered on the door within 6" (152mm) of each hinge.

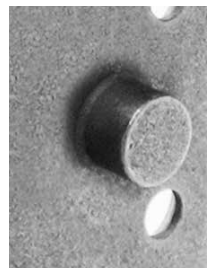
## Detention Hardware

### Heavy Weight Concealed Bearing Prison Hinges

**IHTCB1901R** – (ANSI A8111) – 3 knuckle – full mortise – steel – phosphated and painted

**IHTCB1961R** – (ANSI A5111) – 3 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- Limited lifetime warranty
- Concealed bearing for trouble free, long life – no oil, no grease, no maintenance
- Sloped ends deter hangings
- Stainless steel, hardened, free turning, completely concealed pin
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Hinges can be furnished as follows:
  - with concealed switch (CS)
  - with current conducting feature (CE)
  - with shear resistant studs (SRS)
  - with 1/4-20 punching



**Shear Resistant Stud**

Size Open		Gauge of Metal		Number of Flat Head Security Machine Screws Per Hinge		Quantity Per Box	Quantity Per Carton	Carton Weight	
Inches	(mm)	Inches	(mm)					Lbs.	(Kg)
4 1/2" x 4 1/2"	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 ea.	36 ea.	54	(24.5)
5" x 4 1/2"	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 ea.	24 ea.	42	(19)

### Suggested Specifications

Institutional type hinges should be fabricated from wrought steel or stainless steel. All dimensions as to size, thickness, and screw holes shall conform to ANSI-A156.7 "Standard for Template Hinge Dimensions". Both lateral and vertical loads will be accommodated by bearings which include anti-friction, self-lubricating materials. Pins shall be non-removable. The top and bottom ends of the hinge barrel shall be contoured to a uniform slope.

Hinges shall be tested to cycle a 300 lbs. (136 Kg) door a minimum of 2,500,000 times, (0°- 90°- 0°), installed in accordance with ANSI-156.1 type test fixtures. Vertical wear shall not exceed .030" (.76mm) and lateral wear shall not exceed .060" (1.5mm).

All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. (271.2-J) of force delivered on the door within 6" (152mm) of each hinge.

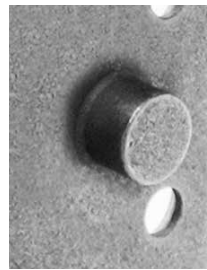
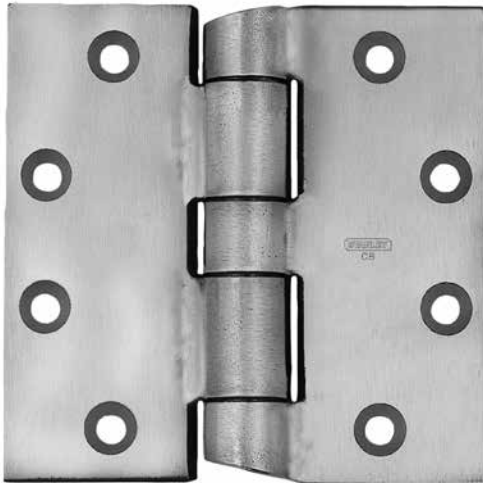
# Detention Hardware

## Heavy Weight Concealed Bearing Prison Hinges

**IHTCB168** – (ANSI A8111) – 5 knuckle – full mortise – steel – phosphated and painted, or polished and plated

**IHTCB199** – (ANSI A5111) – 5 knuckle – full mortise – stainless steel – satin finish (32D)

- Specially designed for detention facilities
- Limited lifetime warranty
- Concealed bearing for trouble free, long life – no oil, no grease, no maintenance
- Sloped ends deter hangings
- Stainless steel, hardened, and completely concealed pin
- Heavy weight gauges increase available bearing surface area for maximum friction reduction
- Steel based painted hinges and stainless steel hinges are fully welded
- Steel based plated hinges are cross pinned, top and bottom
- Hinges can be furnished as follows:
  - with concealed switch (CS)
  - with current conducting feature (CE)
  - with shear resistant studs (SRS)
  - with 1/4-20 punching



**Shear Resistant Stud**

Size Open		Gauge of Metal		Number of Flat Head Security Machine Screws Per Hinge		Quantity Per Box	Quantity Per Carton	Carton Weight	
Inches	(mm)	Inches	(mm)					Lbs.	(Kg)
4 1/2" x 4 1/2"	(114 x 114)	.180	(4.6)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 ea.	36 ea.	54	(24.5)
5" x 4 1/2"	(127 x 114)	.190	(4.8)	8 - 12-24 x 1/2	8 - 12 x 1 1/4	3 ea.	24 ea.	42	(19)

## Suggested Specifications

Institutional type hinges should be fabricated from wrought steel or stainless steel. All dimensions as to size, thickness, and screw holes shall conform to ANSI-A156.7 "Standard for Template Hinge Dimensions". Both lateral and vertical loads will be accommodated by bearings which include anti-friction, self-lubricating materials. Pins shall be non-removable. The top and bottom ends of the hinge barrel shall be contoured to a uniform slope.

Hinges shall be tested to cycle a 300 lbs. (136 Kg) door a minimum of 2,500,000 times, (0°- 90°- 0°), installed in accordance with ANSI-156.1 type test fixtures. Vertical wear shall not exceed .030" (.76mm) and lateral wear shall not exceed .060" (1.5mm).

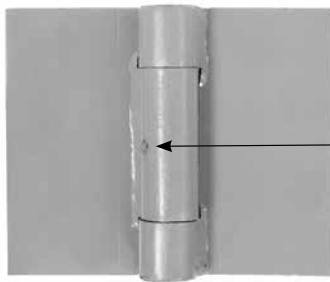
All hinges shall be subjected to a Door Impact Test in accordance with ASTM F1758-96 Standard Test Method for Detention Hinges Used on Detention-Grade Swinging Doors. They shall be capable of withstanding 200 repetitive blows of 200 foot pounds. (271.2-J) of force delivered on the door within 6" (152m) of each hinge.

## Detention Hardware

### Double Weight Concealed Ball Bearing Prison Hinges

**BB855** – (ANSI A8381) – steel with welded pin. Phosphated and prime coated for painting

- For lead-lined doors to x-ray rooms and other exceptionally heavy doors
- Made of double weight steel capable of carrying doors weighing up to 800 lbs. (363 Kg) (Based on a 3' x 7' door with 3 hinges)
- Each of the 2 concealed hardened steel races contains sixteen 1/8" (3.2 mm) hardened and ground steel balls which are assembled within a jacket
- Concealed bearings are well lubricated insuring smooth, long lasting operation
- Rolled knuckles are welded and machined
- Typically made not swaged, no holes (application A) for full surface applications, or for full mortise (applications C) application. All other configurations are made to order



Provision has been made in the barrel of hinge for forced lubrication if further lubrication is necessary

### Typical applications of BB855

<p><b>Regularly furnished blank no holes, not swaged for Full Surface – application A</b></p>	<p><b>Full Surface with holes to template – application B</b></p>
<p><b>Full Mortise – applications</b></p> <p>Application C Not Swaged      Application D Swaged      Application E Special Swaged</p> <p>For all full mortise applications the center of barrel should be set 7/8" (22.2 mm) from door and frame so welded joints will clear. Leaves can be swaged apart any distance between 1/16" (1.6 mm) to 9/16" (14.3 mm)</p>	<p><b>Half Mortise</b></p> <p>Application F Half mortise      Application G Half mortise</p> <p>Variations of half mortise or half surface types can be obtained by further bumping or swaging of mortise leaf to accommodate any required construction. Specify hand when ordering</p>

\* Furnished on order with holes and with machine screws, at additional cost. When screw holes are required they are accurately punched to template. If above details do not show your particular construction submit details and specifications.

\*\*Application H available as made to order

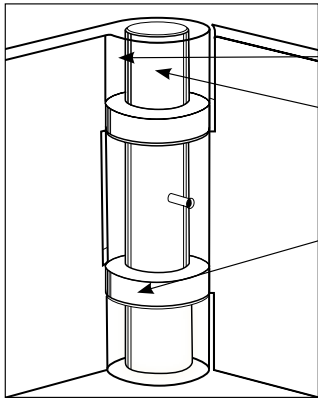
No holes, not swaged for applications "A" or "C"	Catalog Number	USP/EDP Number	Length of Joint		Gauge of Metal		Diameter of Pin		Quantity Per Carton	Carton Weight			
			Inches	(mm)	Inches	(mm)	Inches	(mm)		Inches	(mm)	Lbs.	(Kg)
	BB855	02 9468	5	(127)	6	(152)	281	(7.1)	1/2	(12.7)	2 Ea.	7	(3.2)

# Detention Hardware

## Triple Weight Concealed Ball Bearing Prison Hinges

**BB852** – (ANSI A8391) – steel with welded pin. Phosphated and prime coated for painting

- For lead-lined doors to x-ray rooms and extremely heavy doors and gates
- For hinged cell-front doors and grated steel doors of penitentiaries, jails, reformatories, etc.
- Made of triple weight steel capable of carrying doors weighing up to 1200 lbs. (544 Kg) (Based on a 3' x 7' door with 3 hinges)
- Each of the 2 concealed hardened steel races contains sixteen 3/16" (4.8 mm) hardened and ground steel balls which are assembled within a jacket
- Provision has been made in the barrel of the hinge for forced lubrication if further lubrication is necessary
- Typically made not swaged, no holes (application A) for full surface applications, or for full mortise (applications C) application. All other configurations are made to order



Rolled knuckles are welded and machined.  
Pin is solid one piece steel welded at both ends making pin removal impossible.  
Two concealed bearing assemblies. Hardened raceways. Hardened and ground balls.



### Typical applications of BB852

<p><b>Regularly furnished blank no holes, not swaged for Full Surface – application A</b></p>	<p><b>Full Surface with holes to template – application B</b></p>
<p><b>Full Mortise – applications</b></p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="113 1365 324 1638"> <p><b>Application C</b> Not Swaged</p> </div> <div data-bbox="324 1365 568 1638"> <p><b>Application D</b> Swaged</p> </div> <div data-bbox="568 1365 808 1638"> <p><b>Application E</b> Special Swaged</p> </div> </div>	<p><b>Half Mortise</b></p> <div style="display: flex; justify-content: space-around;"> <div data-bbox="808 1365 1055 1638"> <p><b>Application F</b> Half mortise</p> </div> <div data-bbox="1055 1365 1521 1638"> <p><b>Application G</b> Half mortise</p> </div> </div> <p>Variations of half mortise or half surface types can be obtained by further bumping or swaging of mortise leaf to accommodate any required construction. Specify hand when ordering</p>

\* Furnished on order with holes and with machine screws, at additional cost. If above details do not show your particular construction submit details and specifications

No holes, not swaged for applications "A" or "C"	Catalog Number	USP/EDP Number	Length of Joint		Gauge of Metal		Diameter of Pin		Quantity Per Carton	Carton Weight		
			Inches	(mm)	Inches	(mm)	Inches	(mm)		Lbs.	(Kg)	
	BB852	02 9388	5	(127)	6	(152)	375	(9.5)	3/4	(19.1)	2 Ea.	10 (4.5)

Notes:

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